caBIG Tissue Banks and Pathology Tools Workspace (TBPTWS) Requirement Specifications Survey

I. Respondent Contact Information

Center: Kimmel Cancer Center at Thomas Jefferson University

Contact Name: Jack London, Ph.D

Contact e-mail: jack.london@mail.jci.tju.edu

Role (e.g. developer, adopter): adopter

II. Document Purpose

The purpose of this document is to collect information regarding the specifications of existing specimen bank data management systems and the perceived requirements of any new system that would be developed and adopted for the cancer Biomedical Informatics Grid (caBIG). In order to minimize the time and effort required to collect pertinent information, a series of guided responses are provided which should be answered as indicated. In the event that the options provided do not adequately characterize features of the data management system, the respondent is asked to provide brief details regarding the unique aspects of their system. All information obtained from this survey will be kept confidential and will only be distributed in de-identified or aggregate form. This information will be utilized by the caBIG TBPTWS development team to guide the construction of a data management system that can be easily deployed or adopted by all caBIG members. Prior to the onset of building this system, a formal "Requirements Specification" technical document will be produced and will be available for review and comment.

III. Scope of Specimen Bank

- A. Please indicate the nature of the specimen bank served by your data management system (circle all that apply):
 - 1. Specimen bank support for multiple clinical trials, same organ system
 - 2. General archival specimen bank (banked specimens not tied to specific trials)
- B. Please indicate the approximate number:
 - 1. Number of independent protocols used for specimen collection Specimen collection depends on the following requirements:

 Tumor must be 2 cm in diameter or larger

 Tissue must resemble a malignant tumor macroscopically
 - 2. Total number of participants registered There are 6 registered participants, with different access level

3. Total number of specimens banked

617 cases

4. Annual specimen accrual

Around 200 cases

5. Annual number of specimens distributed

Around 142 cases a year

- C. Please indicate the type of specimens collected:
 - 1. Frozen Tissue Specimens
 - 2. Paraffin Blocks from Surgical Pathology Service (Physically Held)
- D. Where are specimens collected:
 - 1. From a single site within the institution
- E. What are the specimen / participant relationships:
 - 1. Multiple specimens collected from a single participant at multiple times
- F. Where are specimens stored:
 - 1. In a single central location
- G. Bank to Institution Relationships:
 - 1. Does the bank collect tissue for multiple medical/research institutions (more than one IRB, etc)
- H. What associated clinical data is collected with each specimen?
 - 1. Donor Demographics
 - 2. Pathology Diagnosis and Findings
 - 3. Laboratory Data (Tumor Markers, etc) on Donor
 - 4. Therapy History of Donor
 - 5. Outcomes (Recurrence, Progression)
 - 6. Other
- I. Are participants followed to update any of the clinical data below?
 - 1. Past or Future Pathology Reports
 - 2. Laboratory Data (Tumor Markers, etc)
 - 3. Clinical Status (Quality of Life)
 - 4. Outcomes (Recurrence, Progression)
 - 5. Vital Status
 - 6. Most recent follow up date
- J. What is the immediate source of the clinical data collected?
 - 1. Pathology Reports
 - 2. Laboratory Reports
 - 3. Outcomes/Oncology Registries
 - 4. Medical Record
- K. What Identifiers are stored with the specimen?

- 1. Tissue Bank "Accession" Number (Coded Number)
- 2. Surgical Pathology LIS Accession Number
- 3. Hospital Patient ID

IV. Inter-Bank Relationships

- A. Please indicate data relationships between your specimen bank and other specimen banks with which you are aware.
 - 1. This bank is stand-alone but could potentially interact with other relevant banks (e.g. similar organ site banks at other institutions or other organ site banks at the same institution)
 - 2. This bank interacts using electronic data transfer with other banks (How many?) As part of the PCABC, this bank shares electronic data with other 5 institutions, also members of the Pennsylvania Cancer Alliance.
- B. If there is electronic data transfer between other banks, describe the nature of the data exchanged.
 - 1. HIPAA De-identified Data
 - 2. Demographic Data
 - 3. Pathology Data
 - 4. Outcomes Data
- C. If there are tissue samples exchanged between banks, describe the nature and circumstance of these transactions.

V. Current Database System and Tools

Please circle all statements that apply.

- A. What is the current nature of your data system:
 - 1. Multi-tiered database web server
- B. What modes of data entry do you currently utilize:
 - 1. Manual entry of data
 - 2. Manually merging of electronic data files
- C. What is the current disposition of your data system:
 - 1. Adequate. Would replace it if something better was available
- D. How many Information Technology FTEs support the operation of your data system? 5
- E. How is metadata handled in the tissue bank:
 - 1. Data definitions, Data Entry and Validation rules

Stored in database tables

VI. System Access

A. Please indicate methods in which users access your data system:

- 1. Through web-based intranet communication (single institution)
- B. Please indicate the types of users that access your system:
 - 1. Bank personnel entering specimen tracking data
 - 2. Administrators with read only / report access
 - 3. Research investigators querying for specimens
- C. Do different users have levels of read permissions in your system?

Yes

D. Do different users have levels of write (i.e data entry) permissions in your system?

Yes

- E. Does your system track user access to the system?
 - 1. No
- F. Does your system log transactions:
 - 1. There is no transaction logging
- G. Please describe any other unique access features of your system below:

VII. IRB and Patient Confidentiality

A. Under how many different IRB (Human Studies) protocols are specimens collected? If possible, please attach copies of these protocols and corresponding consent from language (as they pertain to specimen banking).

1 – see Appendix C.

B. Does your IRB make provisions for banking specimens for future, unspecified research?

Yes

C. Does your IRB make provision for aggregation and/or long term clinical follow up of tissue donors (participants).

Yes

D. Are HIPAA-defined participant identifiers stored in your system?

Yes

E. Are specimens ever distributed with HIPAA-defined participant identifiers?

No

F. Are objects (i.e. participants or specimens) de-identified (coded) in your system? If so, explain the method of de-identification below:

They are coded with a tumor bank de-identified number

- G. Does your facility maintain an NCI-issued certificate of confidentiality? **No**
- H. Are research results stored in your system?

No

- I. Please describe below the encryption / security measures utilized by your system to prevent access to participant identifiers:
- J. How would you rate your working relationship with your IRB:
 - 1. Good. Regular communication with the IRB; No policy conflicts
- K. As much as possible, please briefly describe scenarios where the specimen bank has had policy conflicts with the IRB or where matters of patient confidentiality have been problematic.

None

L. Who is responsible for the appropriate research use of banked tissue? **Juan Palazzo, MD.**

VIII. Distribution, Sharing, Material Transfer, and Intellectual Property (IP)

- A. Does the Bank work with Tissue Utilization Committees? (How many?) **No**
- B. Who actually selects and approves the distribution of tissue to an investigator? **Dr. Juan Palazzo**
- C. How are specimens "prioritized" for distribution in the tissue bank? **Based on the research merits, background of the investigator and number and type of specimens.**
- D. How does your tissue bank measure investigator feedback? We keep in constant contact with researchers receiving our tumors and seek their feedback regarding quality of the samples.
- E. How does the bank "market" itself and its tissue to investigators? Participating in meetings, interacting with other researchers who have an interest in breast cancer research.
- F. Do you distribute specimens to extramural investigators who are named investigators on prospective collection studies?

No

G. Do you distribute specimens to extramural investigators who are not part of the original collection protocol or who are requesting specimens from your general specimen bank archive?

Yes

H. Do you have a standardized Materials Transfer Agreement for any specimen that is distributed extramurally? If so, please attach a copy of this agreement.

Yes – see Appendix D.

I. Do you distribute specimens to commercial entities?

Yes

- J. How would you rate your working relationship with your Technology Transfer Office:
 - 1. **Good.** Standardized agreements available
- K. As much as possible, please list key IP issues that have been raised at your institution with regard to sharing specimens and associated data with extramural institutions.

The confidentiality issues are paramount and we require IRB approved protocols from all participant researchers

L. Does your institution have an official policy on the release of pre-publication and post-publication data? If so, please describe:

No

IX. Data System Objects

For the purposes of this survey, 'Objects' are defined as physical entities about which data is collected and stored, usually in discrete data tables. Please indicate which objects are represented in your data system (note that the actual names of these objects may differ from system to system). In addition, please include your system's data schema. **Schema attached in Appendix A**.

- A. Participants (Donors): An individual from whom specimens are collected
- B. *Admissions* (Tissue Collection Event): An event in time that results in one or more collected specimens from a participant
- C. Specimens: Biological material that is collected from a participant
- D. Segments: Aliquot or subdivision of a single collected specimen
- E. *Users*: An individual who has access to the data system

X. System Data Elements

- A. Please attach as **Appendix B**, a list of system data elements in the following format (This can be a dump of the table structures of a database):

 Table NameData Element NameData TypeControlled Values? Description
- B. Please list any sources of common data elements or unified coding schemes employed by your system.
- C. Does your system store other specialized data types (e.g. digital images)? Please specify and describe how they are used.
 No.

XI. Use Cases

Below is a list of representative use cases that may be commonly employed by a specimen banking data system. Please see section IX for definitions of representative objects. For each scenario, please indicate: 1=This functionality is not needed in the system; 2=This functionality is currently not employed in the system, but would be desirable; 3=This functionality is absolutely essential for the system.

A. Data Entry

- 1. Register a new user (3)
- 2. Participant data
 - a. Register a new participant to a study
 - b. Enter new clinical data on existing participant
- 3. Admission data (3)
 - a. Enter pathology data for admission
- 4. Specimen data (3)
 - a. Register a new specimen for a new admission
 - b. Register a new specimen for an existing admission
- 5. Please list other specific data entry tasks required / desired for your system below:

B. Data Update

- 1. Participant data (3)
 - a. Update participant demographics
 - b. Update participant clinical data
- 2. Admission data (3)
 - a. Update pathology data for admission
- 3. Specimen data (3)
 - a. Update specimen location
 - b. Update specimen status (available, accessed, processed, etc.)
 - c. Register specimen distribution (linked to create specimen distribution)
- 4. Sample data (3)

- a. Update sample location
- b. Update sample status
- c. Register sample distribution (linked to create sample distribution)
- 5. Please list other specific data update tasks required / desired for your system below:

C. Data Querying (3 for all)

- 1. Query for specimens / samples by study
- 2. Query for specimens / samples by collection site
- 3. Query for specimens / samples by participant
- 4. Query for specimens / samples by Clinical / Pathological criteria
- 5. Query for specimens / samples by specimen attribute
- 6. Query for specimens / samples by research data
- 7. Query for specimens / samples by investigator use
- 8. Please list other specific data query tasks required / desired for your system below:

D. Other

1. Please list other specific tasks required / desired for your system below:

XII. The caBIG Virtual Specimen Repository

One potential goal of the caBIG initiative is to create a virtual specimen repository where institutions could exchange specimen inventory data, actual biospecimens, and research data generated from such specimens.

- A. Is your bank part of such a multi-institutional virtual tissue bank today? It's in the process of becoming one.
- B. Below, please indicate whether any of the following issues will impede the progress toward this goal at your institution (1=significantly prevent, 2=may prevent, 3=can be resolved, 4=will not impede):
 - 1. IRB / Human Studies concerns about sharing specimen data (e.g. creating a web-accessible specimen catalog)

4

2. IRB / Human Studies concerns about sharing specimens with other investigators for research studies not initially presented in the collection protocol / consent form

4

3. IP concerns about sharing specimens with extramural institutions

3

4. IP concerns about sharing research data generated from shared specimens

3

5. Competing scientific interests for use of specimens

3

6. Limited Information Systems support to create the required interfaces for inter-institutional data systems communication

3

7. Perceived loss of control of specimens/data

4

- 8. Please list below other specific restrictions that may limit the ability to share biospecimens and biospecimen data at your institution:
- **Appendix A**. Please attach your system's data schema
- **Appendix B**. Please attach a list of your system's data elements
- **Appendix** C. Please attach language utilized by IRB protocols and consent form documents associated with specimen collection and banking
- **Appendix D**. Please attach any standardized Materials Transfer Agreement utilized by your bank
- **Appendix E**. Please attach examples of any administrative or client reports generated by your bank

XIII. FREE TEXT SECTION

- A. Please provide a diagram identifying the main stakeholders in the tissue bank (IRB, Sponsoring Projects, Research Projects, Tissue Donors etc.) and their relationships between each other and the tissue bank.
- B. Please provide a free text description of how the following activities occur in the tissue bank:
 - 1. How is a typical Specimen Accessioned?

Specimens are received in the Pathology Department with a central accession Hospital number. They're grossed (which includes dissection and dictation) and after a tumor is identified and selected for pathologic diagnosis, if it is 2 cm or larger, a representative section is procured for the tumor bank.

Tissue is frozen in liquid nitrogen and submitted into -70° degree freezer until final pathologic diagnosis is made. The tissue is then submitted into the bank which is kept at -150° .

Pathology Reports are then entered into database which gives a sequential number to the case. Patient's data is entered and stored with a tumor bank number de-identifying the patients.

2. How does an investigator request tissue from the bank and how does that request become a formal order and an actual distribution?

All requests must be submitted to Dr. Palazzo. Depending on the type of research and the characteristics of the tissue requested and the availability of an adequate number of specimens, tissue samples can be provided along with de-identified case information.

Tissue is removed from -150° bank – into dry ice and is shipped FedEx overnight to recipient.

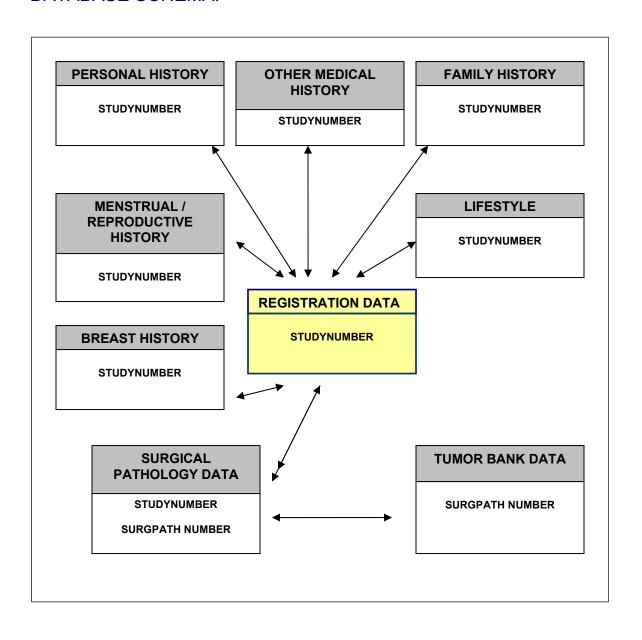
The tissue is identified with our tumor bank number only.

3. How does the bank Q/A its inventory?

Q/A of inventory is done by hard copy of pathology reports and random inquiries.

APPENDIX A:

KIMMEL CANCER CENTER (JEFFERSON) BREAST TISSUE DATABASE SCHEMA.



APPENDIX B:

KIMMEL CANCER CENTER (JEFFERSON) BREAST TISSUE DATABASE SYSTEM DATA ELEMENTS.

REGI	STRATION DATA TA	ABLE																						
DataE	lement	DataLabel	DataType	DataFieldLength	Valid Value 1	Valid Value 2	Valid Value 3	Valid Value 4	Valid Value 5	Valid Value 6	Valid Value 7	Valid Value 8	Valid Value 9	Valid Value 10	Valid Value 11	Valid Value 12	Valid Value 13	Valid Value 14	Valid Value 15	Valid Value 16	Valid Value 17	Valid Value 18	Valid Value 19	Valid Value 20
MRnu		MR#	varchar	15																				
LastN	lame	Last Name First Name	varchar	15 15																				
FirstN Gend	iame er	First Name Gender	varchar varchar		Female	Male																		
	Address		varchar	30																				
City State		City State	varchar varchar	30																				
Zip		Zip	varchar	10																				
Telepi	honeHome	Telephone (Home)	varchar	14																				
Telepi SSN	honeWork	Telephone (Work) Soc Sec #	varchar varchar	14 10																				
Occup	pation	Occupation	varchar	30																				
Insura		Insurance Insurance ID#	varchar	30 20																				
InsIDr	num Physician		varchar varchar		Anne	Donna Barbot	Edith Mitchell	Edward Sauter	Ernest Rosato	Francis Rosato	Gordon	Herhert Cohn	James Fox	Jennifer Sabol	John Moore	Kris Kaulhack	Marvin A Krane	Melvin Moses	Michael Weinstein	Paul Curcillo	Pauline Park	Robert McCaims	Stenhanie Kinn	Steven Conit
	****				Rosenberg	Donna Darbox	Low Mileres	Edward Cadici	Linesi ressio	T Idilois Trosaic	Schwartz	ricibert boini	bullics i ox	ocininci oddon	oom moore	TOTO TELEBOOK	marin vi. radine	mentili moses	microci vvenistem	T dai Garcino	r danne r din	report moduling	Otephanic rung	Oleveli Gopii
Refer	PhysPhone ryPhysician	Referring Physician Telephone Primary Care Physician	varchar	14																				
	PhysPhone	Primary Care Physician Telephone	varchar	14																				
	cologist	Gynecologist		30																				
Gynel	Phone	Gynecologist Telephone	varchar	14																				
SURG	SICAL PATHOLOGY Element	DataLabel	D-4-T	DataFieldLength	Walled Walling &	W-114 W-1 0	V-114 V-1 2	V-P-AV-1 4	V-114 V-1 F	V-114 V-1 6	V-114 V-1 7	Welled Welling B	Welled Welling 0	V-114 V-1 40	V-11-4 V-1 44	V-114 V-1 40	V-11-4 V-1 42	V-11-1 V-1 4.4	V-114 V-1 45	V-04 V-1 46	V-114 V-1 47	V-114 V-1 40	V-114 V-1 40	V-II-1 V-I 00
Datas	tiement	DataLabei	DataType	DatarieldLength	valid value 1	valid value 2	valid value 3	valid value 4	valid value 5	valid value 6	valid value /	valid value o	valid value 9	valid value 10	valid value 11	Valid Value 12	valid value 13	valid value 14	valid value 15	valid value 16	valid value 17	valid value 16	valid value 19	valid value 20
	PathNum	Surgical Pathology Number (A01-12345)	varchar	10																				
AccDa Spec1		Accession Date (mm/dd/yyyy) Specimen Type	varchar varchar	10 35	Needle core	Lumpectomy		Lumpectomy w/	De susisisses	Classia	Modified radical	Destant	Reduction	Other										
Speci	ype	Specimen Type	varcnar		biopsy	w/o margins			biopsy	mastectomy			mammoplasty	Other										
					ыорау	wo margina	margina	margins	ыорау	musicotomy	musiculomy	madiculomy	mammophasty											
Tumo SiteLe		Tumor Bank Site of Lesion	varchar varchar	3	yes Left - Upper	no Left - Upper	Loft Lower	Left - Lower	Bight Honor	Bight Honor	Bight Lower	Dight Lower	Pilotoral	Bilatoral Honor	Dilatoral Lawer	Bilatoral Lawer	Left - Quadrant	Right Quadrant						
Sitelle	381011	Site of Lesion	varcnar	30				Outer Quadrant	Inner Quadran	t Outer	Inner Quadrant	Outer Quadran	t Upper Inner				NOT SPECIFIED							
										Quadrant			Quadrant											
LNex	cision Nexcision	Lymph Node excision Type of Lymph Node excision		3	yes Sentinel node	no Axillary lymph	Avillan/ lymnh																	
Types	LIVEACISION	Type of Lymph Node excision	varcital		biopsy	node dissection	node dissection																	
						w/o designated	w/ designated																	
						leve	level																	
	tPathTag	Breast Pathology		80																				
Benig	nNonNeoTag	Benign Non-Neoplastic	varchar	80	Fibrocystic changes NOS	Ductal hyperplasia w/o	Sclerosing	Microglandular adenosis	Adenosis NOS	Stromal fibrosis (fibrous	s Duct ectasia	Fat necrosis	Diabetic mastopathy	Papillomatosis	Intra ductal papilloma	Collagenous spherulosis	Radial scar (sclerosing	Chemotherapy/ radiation effect	Fibromatosis	Pseudo angiomatoid	Normal			
					changes NOS	atypia	adenosis	adenosis		mastopathy)			masiopainy		papilloma	sprierulosis	(scierosing lesion)	radiation effect		hyperplasia				
						(proliferative				,,							,			,,,,				
Ponia	nNonNeo01	Fibrocystic changes NOS	varchar	4		fibro																		
Benig	nNonNeo02	Ductal hyperplasia w/o atypia (proliferative	varchar	i																				
		fibro																						
		Sclerosing adenosis Microglandular adenosis	varchar varchar	1																				
Benig	nNonNeo04 nNonNeo05	Micrograndular adenosis Adenosis NOS	varchar	1																				
Benig	nNonNeo06	6. Stromal fibrosis (fibrous mastopathy)	varchar	1																				
Benig	nNonNeo07	7. Duct ectasia	varchar	1																				
Benig	nNonNeo08 nNonNeo09	Fat necrosis Diabetic mastopathy	varchar varchar	1																				
Benig	nNonNeo10	10. Papillomatosis	varchar	i																				
Benig	nNonNeo11	11. Intra ductal papilloma	varchar	1																				
Benig	nNonNeo12 nNonNeo13	12. Collagenous spherulosis 13. Radial scar (scierosing lesion)	varchar	1																				
Benig	nNonNeo14	14. Chemotherapy/ radiation effect	varchar	i																				
Benig	nNonNeo15	15. Fibromatosis	varchar varchar	1																				
Benig	nNonNeo16 nNonNeo17	16. Pseudo angiomatoid hyperplasia 17. Normal	varchar	1																				
Benig	nNeoTag	Benign Neoplastic	varchar			Hemangioma			Tubular	Myoepithelial		Granular cell												
					(NOS)		w/ ductal hyperplasia	hamartoma	adenoma	tumor	tumor	tumor												
Benig	nNeo01	1. Fibroadenoma (NOS)	varchar	1			Hyperplasia																	
Benig	nNeo02	2. Hemangioma	varchar	1																				
Benig	nNeo03 nNeo04	Fibroadenoma w/ ductal hyperplasia Breast hamartoma	varchar varchar	1																				
Benig	nNeo05	5. Tubular adenoma	varchar	i																				
Benig	nNeo06		varchar	1																				
	nNeo07 nNeo08	7. Phylloides tumor 8. Granular cell tumor	varchar varchar	1																				
	rlineTag	Borderline	varchar	80	Ductal	Atypical lobular	Atypical																	
					hyperplasia w/	hyperplasia	papilloma																	
Borde	rline01	Ductal hyperolasia w/ atypia	varchar	1	атурга																			
Borde	rline02	Atypical lobular hyperplasia	varchar	i																				
Borde	erline03	Atypical papilloma Malignant Epithelial	varchar	1	ncis	DCIS w/	LCIS	Papillary		I Invasive Inhula		Matastatic from												
Maligi	EpithTag	Malignant Epithelial	varchar	80	DCIS	microinvasion	LCIS		carcinoma (in			metastatic from												
									situ/invasive/		(ductal/ lobular)													
Method	Enith01	1. DCIS	varchar						NOS)															
Maligi	Epith01 Epith02	DCIS DCIS w/ microinvasion	varchar	i																				
Maligl	Epith03	3. LCIS	varchar	1																				
	Epith04 Epith05	Papillary carcinoma Invasive ductal carcinoma (in situ/invasive/	varchar varchar	1																				
		NOS)																						
	Epith06	Invasive lobular carcinoma	varchar	1																				
	Epith07 Epith08	Mixed carcinoma (ductal/ lobular) Metastatic from contralateral breast	varchar varchar	1																				
	OtherTag	Malignant Other	varchar	80	Malignant	Primary breast	Primary breast	Metastasis from	Other															
					phylloides tumor	lymphoma NOS	sarcoma NOS	other site																
Malio	Other01	Malignant phylloides tumor	varchar	1	turnor																			
Malig	Other02	Primary breast lymphoma NOS	varchar	1																				
Malig	Other03	3. Primary breast sarcoma NOS	varchar	1																				

MaligOther04 MaligOther05 SubDCIS SubInv OtherFeatures	Metastasis from other site Other Subtype of DCIS Subtype of Invasive Component Other Features	varchar varchar varchar varchar varchar	1 1 20 20 35	Cribriform Tubular Inflammatory carcinoma	Solid Medullary Pagets disease	Micropapillary Colloid Pagetoid spread	Clinging Papillary I Involving sclerosing adenosis	Comedo Metaplastic	Mixed Mucinous	N/A Apocrine	Secretory	Adenoidcystic	Cribriform	Clear cell	Other	N/A
TumorSize	Tumor Size (in cm or N/A)	varchar	10													
TumorNucGrade	Tumor Nuclear Grade (use highest grade)	varchar	80	!		III										
HistGrade	Histologic Grade (use highest grade)	varchar	80	1	II	III										
NumPosMargins	Number of Positive Margins (or N/A)	varchar	3													
DistMargin	Closest Distance to Margin (in cm or N/A)	varchar	5													
VascSpace	Vascular Space Involvement	varchar	20	Negative	Positive	Positive	N/A									
						extensive										
LNTag	Lymph Nodes Assessment	varchar	80													
NumSampledLN NumPosLN	Number of sampled lymph nodes	varchar	2													
	Number of positive lymph nodes	varchar														
NumLNL1	Number of lymph nodes level I (or N/A)	varchar	3													
NumPosLNL1	Number of positive lymph nodes level I (or N/A)	varchar	3													
NumLNL2	Number of lymph nodes level II (or N/A)	varchar	3													
NumPosLNL2	Number of positive lymph nodes level II (or N/A)		3													
NUMEROSCINCE	Number of positive lymph houes level if (or NA)	varcital	3													
NumLNL3	Number of lymph nodes level III (or N/A)	varchar	3													
NumPosLNL3	Number of positive lymph nodes level III (or N/A)		3													
Hami Galitea	realised of positive lymph hodes level in (or leve)	, varonar														
LargestTumLN	Largest tumoral lymph node (in cm or N/A)	varchar	5													
ExtranodalExt	Extranodal extension	varchar	3	yes	no											
SNTag	Sentinel Nodes	varchar	80													
NumSN	Number sampled Sentinel Nodes	varchar	2													
SNhist	Histological assessment	varchar	8	Positive	Negative											
SNimmuno	Immunohistochemistry assessment	varchar	8	Positive	Negative											
ImmunoPanelTag	Breast Immunohistochemistry Panel	varchar	80													
IPER	ER: % of tumoral cells (or N/A)	varchar	3													
IPPR	PR: % of tumoral cells (or N/A)	varchar	3													
IPki67	Ki67 (proliferation marker): % of tumoral cells	varchar	3													
	(or N/A)															
IPp21	P21: % of tumoral cells (or N/A)	varchar	3													
IPp53	P53: % of tumoral cells (or N/A)	varchar	3													
IPcerb2	C-erb2: % of tumoral cells / Weak/ Moderate/	varchar	8													
	Strong (or N/A)															
IPhercep	Herceptest	varchar	8	Positive	Negative											

TUMOR BANK DATA TABLE
DataElement DataLabel DataFjeldLength Valid Value 1 Valid Value 2 Valid Value 3 Valid Value 3 Valid Value 3 Valid Value 4 Valid Value 5 Valid Value 5 Valid Value 6 Valid Value 7 Valid Value 7 Valid Value 8 Valid Value 9 Valid Value 10 Valid Value 10 Valid Value 12 Valid Value 13 Valid Value 15 Valid Value 16 Valid Value 17 Valid Value 18 Valid Value 18 Valid Value 19 Valid Value 19 Valid Value 10 Valid Value 10 Valid Value 10 Valid Value 11 Valid Value 10 Val

TumorBankTag BreastBankNum BoxLocation SurgPathNum TumorTissueSamples Tumor Bank Data Breast Bank Number Box Location (000-00) Surgical Pathology Number Tumor Tissue Samples Normal Tissue Samples varchar 80 varchar 4 varchar 6 varchar 10 varchar 2 NormalTissueSamples varchar varcha TumorTouchPreps NormalTouchPreps Tumor Touch Preps Normal Touch Preps TumorParaffinBlocks NormalParaffinBlocks Tumor Paraffin Biocks
Metastatic Tumor to Lymph Mode
Metastatic Tumor to Cymph Mode
1st Request
1st Request
1st Request
1st Request Tissue Samples
1st Request Tissue Samples
1st Request Tissue Samples
1st Request Timor Touch Preps
1st Request Tumor Touch Preps
1st Request Tumor Touch Preps
1st Request Timor Paraffin Sides
1st Request Mornal Faraffin Sides
1st Request Mornal Samples
2nd Request Mornal Samples
2nd Request Mornal Samples
2nd Request Mornal Samples
2nd Request Mornal Faraffin Sides
3nd Request Mornal Faraffin Tumor Paraffin Blocks Normal Paraffin Blocks NormalParaffinBlocks
MetTumorLN
MetTumorOther
LNmetParaffinBlocks
OTHERmetParaffinBlo
SpecimensUsedTag
1stRequestTag
ReqestNum1
TumorTissue1
NormalTissue1
TumorTouch1 TumorTouch1 NormalTouch1 TumorParaffin1 NormalParaffin1 LNMet1 Met1 Met1 LNmetParaffin1 MetParaffin1 2ndRequestTag ReqestNum2 TumorTissue2 NormalTissue2 TumorTouch2 NormalTouch2 NormalParaffin2 NormalParaffin2 LNMet2 Met2 LNmetParaffin2 MetParaffin2 3rdRequestTag ReqestNum3 TumorTissue3 NormalTissue3 varchar varchar Con Requisit Net Paramin solices
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ReqestNum5	5th Request Number	varchar	4																				
TumorTissue5 NormalTissue5	5th Request Tissue Samples 5th Request Normal Samples	varchar	2																				
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BREAST HISTORY TABL	LE		e DataFieldLength																				
DataElement	DataLabel		-	Valid Value 1	Valid Value 2	Valid Value 3	Valid Value 4	Valid Value 5	Valid Value 6	Valid Value 7	Valid Value 8	Valid Value 9	Valid Value 10	Valid Value 11	Valid Value	12 Valid Value 13	3 Valid Value 14	Valid Value 15	Valid Value 16	Valid Value 17	Valid Value 18	Valid Value 1	Valid Value 20
BreastHistoryTag SelfExam	Breast History Information Do you practice breast self-examination?	varchar		No never	Yes rarely	Yes when I	Yes, regularly,	Eveny month															
SellExam	Do you practice breast sen-examination?	varchar	40	NO, never	res, rarely		but not every	Every monun															
Lump	Do you think you have a breast lump? (If yes.	varchar	20	No	Yes, LEFT	so Yes, RIGHT	month																
	which breast?)				breast	breast																	
OtherProblems MammogramLast	Other breast problems (please describe) When was your last mammogram?	varchar	40 30	Never had one	Within the neet	6 to 12 months	1 to 2 years	2 to 5 years	more than 5														
				THE VET TIES OTT	6 months	ago	ago	ago	years ago														
MammogramAbnormal	If your last mammogram was abnormal, enter the month / year	varchar	10																				
Ultrasound	If you have had a breast ultrasound, enter the	varchar	10																				
Biopsy	month / year Have you ever had breast surgery (biopsy)?	varchar	30	No	Yes, once - left	Yes once -	Yes more than	Yes, more tha	n														
	,				breast	right breast	once - left	once - right															
RionsyDates	If you have had surgery (biopsy), list the dates	varchar	40				breast	breast															
	(month/year) separated by comma																						
HadBreastCancer	Do (did) you have breast cancer?	varchar	20	No	Do not know	Yes, left breast	Yes, right breast																
YearBreastCancer	If you have (had) breast cancer, what year	varchar	4																				
BraSize	where you first diagnosed? What is your bra size (for example 34-B)?	varchar	5																				
Discomfort	Do (did) your breasts bother you before	varchar	15	Never	Rarely	Occasionally	Frequently	Almost always															
	menstrual periods?																						
	_																						
FAMILY HISTORY TABLE DataElement	DataLabel	DataTyp	e DataFieldLength	Valid Value 1	Valid Value 2	Valid Value 3	Valid Value 4	Valid Value 5	Valid Value 6	Valid Value 7	Valid Value 8	Valid Value 9	Valid Value 10	Valid Value 11	Valid Value	12 Valid Value 13	3 Valid Value 14	Valid Value 15	Valid Value 16	Valid Value 17	Valid Value 18	Valid Value 1	Valid Value 20
FamilyHistoryTag	Family History of Cancer	varchar	80																				
MotherBC	Does (did) your mother have breast cancer?	varchar	30	No	Yes, before her	Yes, after her	Yes, in both	Do not know															
Sisters	Do (did) you have sisters?	varchar	80	No	menopause	menopause 2	breasts 3	4	5	6	7	8	9	10	more	unknown							
SistersBirthYears	Years of birth of sisters (separate by commas)	varchar	40	NO	1	2	3	4	5	0	'	۰	9	10	more	unknown							
Brothers	Do (did) you have brothers?	varchar	80	No	1	2	3	4	5	6	7	8	9	10	more	unknown							
BrothersBirthYears	Years of birth of brothers (separate by commas)	varchar	40	NO	1	2	3	4	5	0	'	۰	9	10	more	unknown							
SistersBC	Do (did) any of your sisters have breast cancer?	Luorobor	30	No	Yes, before	Yes, after																	
			00		menopause	menopause																	
GrandmothersBC			50	No	Yes, mother's	Yes, mother's	Yes, father's	Yes, father's															
	Does (did) either of your grandmothers have	varchar		140	mother before	mother ofter	mother before	mother ofter															
	breast cancer?				mother, before menopause	mother, after menopause	mother, before menopause	mother, after menopause															
AuntBC	boes (did) either or your grandmothers have breast cancer? Does (did) any aunt have breast cancer?	varchar		No	mother, before menopause Yes, mother's	mother, after menopause Yes, mother's	mother, before menopause Yes, father's	mother, after menopause Yes, father's															
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AuntBC CousinBC MaideC MedicationsTag Relation1 AgeDct Alevet AgeDct AgeDct Alevet AgeDct AgeD	breast cancer? Does (did) any first cousin have breast cancer? Specify (brother, unde, father, etc.) any MALE relatives with breast cancer? Specify (brother, unde, father, etc.) any MALE relatives with breast cancer in your immediate family. Resistorship to you at 1 Age at deposits of ANY cancer in your immediate family. Resistorship to you at 1 Age at deposits at 1 Aliver? at 1 Aliver? at 1 Age at deposits at 2 Age at deposits at 3 Age at deposits at 5 Age at 2 Age	varchar	50 50 80 20 22 3 20 20 20 3 20 20 3 20 20	yes yes yes yes Valid Value 1	mother, before Yes, mother's menopause Yes, mother's menopause Yes, mother's menopause Yes, mother's side, before menopause no	mother, after year, and year, mother's side, after menopause	mother, before menopause Yes, father's services of the service	mother, after menopause Yes, tather's menopause Yes, tather's side, after menopause	Valid Value 6	Valid Value 7	Valid Value 8	Valid Value 9	Valid Value 10	Valid Value 11	Valid Value ⋅	12 Valid Value 13	3 Valid Value 14	Valid Value 15	Valid Value 16	Valid Value 17	Valid Value 18	Valid Value 1:	> Valid Value 20
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Exercise	Do you exercise regularly?	varchar	25	No	Daily	2 to 3 times a	Once a week	Less than once																
Diet	Do you eat a special diet?	varchar		No	Vegetarian	week Vegan	Kosher	a week Other																
Diet	Do you eat a special diet?	vaiciai	20	140	vegetarian	vegan	Kosilei	Other																
MENSTRUAL HISTORY To DataElement		DataType	e DataFieldLength	Valid Value 1	Valid Value 2	Valid Value 3	Valid Value 4	Valid Value 5	Valid Value 6	Valid Value 7	Valid Value l	8 Valid Value	Valid Value 10	Valid Value 11	Valid Value 12	Valid Value 13	3 Valid Value 14	Valid Value 15	Valid Value 16 V	/alid Value 17 Va	alid Value 18	Valid Value 19	Valid Value 20	
MenstrualHistoryTag Age1stPeriod	Menstrual & Reproductive History Information Age at 1st menstrual period?	varchar varchar	80																					
NumPregnancies	How many times have you been pregnant?	varchar	4	0	1	2	3	4	5	6	7	8	9	10	more									
NumComplete Age1stPregnancy	How many complete preganancies Age when you first became pregnant?	varchar varchar	4	0	1	2	3	4	5	6	7	8	9	10	more									
AgeLastPregnancy	Age when you last (most recently) became	varchar	2																					
MiscarriageAbortion	pregnant? Have you ever had a miscarriage or abortion,	varchar	25	No	Yes, once	Yes, more than																		
AgesMiscAbort	voluntary or accidental?					once																		
-	list year(s) or age(s)		30																					
Nurse MonthsNursed	Did you nurse any of your children? If you have nursed, total months for all children?	varchar varchar	3	No	Yes																			
AnesGendersChildren	Ages and genders of your children? (example:	varchar	40																					
	M-3,F-5,M10)																							
Periods DateLastPeriod	Are you still having menstrual periods? Date (month/day/4-digit year) of your last	varchar varchar	20 10	No	Yes, Regular	Yes, Irregular																		
AgeFinalPeriod	menstrual period?																							
	If you are no longer having periods, at what age did you have your last?																							
Reason	If you are no longer having periods, why?	varchar	30	Natural Menopause	Operation	Chemotherapy	Tamoxifen / Hormones	Other																
Ovaries	If you had an operation that stopped your	varchar	25	No	Both ovaries	One ovary	Not sure																	
Hormones	periods, were your ovaries also remove Are you taking any female hormones at this	varchar	40	None	removed Birth control	removed Estrogen	Estrogen AND	Estrogen	Other															
	time?				pills	replacement	progesterone	vaginal cream or ring																
PastHormones	Have you EVER taken female hormones?	varchar	40	None	Birth control	Fertlity drugs	Hormones	Estrogen	Estrogen AND		Other													
					pills		during pregnancy	replacement	progesterone	vaginal cream or ring														
BirthControlPills	Length of time you have taken birth control nills?	varchar	25	Never	Less than 6 months	6 to 12 months	1 to 2 years	2 to 5 years	5 to 10 years	longer than 10 years														
PillNames	Name(s) of birth control pills you have taken	varchar	40		monus					years														
Estrogens	(current, previous, etc.)? How long have you taken estrogens for	varchar	25	Never	Less than 6	6 to 12 months	1 to 2 years	2 to 5 years	5 to 10 years	longer than 10														
LastHormone	menopausal symptoms? When did you last take female hormones	varchar		Never did	months	1 to 6 months			-	years														
Lasti formanc	(estrogens or birth control pills)?	vui ci iui	55	rever did	30 days	ago	ago	year ago																
OTHER MEDICAL HISTO DataElement	DRY TABLE DataLabel	DataType	e DataFieldLength	Valid Value 1	Valid Value 2	Valid Value 3	Valid Value 4	Valid Value 5	Valid Value 6	Valid Value 7	Valid Value	8 Valid Value	Valid Value 10	Valid Value 11	Valid Value 12	Valid Value 13	3 Valid Value 14	Valid Value 15	Valid Value 16 V	/alid Value 17 Va	alid Value 18	Valid Value 19	Valid Value 20	
OtherMedicalHistoryTag	Other Medical History	varchar	80																					
OtherProblems	Describe any OTHER health problems																							
MajorSurgery		varchar	80																					
	Describe any major surgical operations you have had	varchar varchar	80																					
Allergies	Describe any major surgical operations you	varchar varchar																						
Allergies MedicationsTag	Describe any major surgical operations you have had Describe any allergies you have to medications, foods, or other products List the NAME, DOSE, TIMES/DAY, and	varchar varchar	80																					
MedicationsTag Meds1	Describe any major surgical operations you have had Describe any allergies you have to medications, foods, or other products List the NAME, DOSE; TIMES/DAY, and REASON for any medicine you regularly take medication 8	varchar varchar varchar varchar	80 80 80																					
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MedicationsTag Meds1 Meds2 Meds2 Meds2 Meds3 Meds4 PERSONAL HISTORY TJ DataElement PatientHistoryTag MortalStatus Race Ethnicity Religion BirthDate	Describe any major surgical operations you have had Describe any allergies you have to medications, books, or other products the SISTAM, and the SISTAM, and the SISTAM, and the SISTAM or any medicine you regularly take medication at 2 medication at 3 medication at 3 medication at 3 medication at 3 medication at 4 medication at 4 medication at 4 medication at 5 med	varchar	80 80 80 80 80 80 80 80 50 50 50 30	Married (once only) American Indian or Alaska Native Hispanic or Latino	Single - never married Asian Not Hispanic or Latino Protestant (any	Divorced or separated Black or African American	Divorced & remarried Native Hawaiia or Other Pacific Islander	Widowed in White	Widowed & remarried		Valid Value i	8 Valid Value 9	Valid Value 10	Valid Value 11	Valid Value 12	Valid Value 13	3 Valid Value 14 1	Valid Value 15	Valid Value 16 V	Valid Value 17 Va	alid Value 18	Valid Value 15	Valid Value 20	
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APPENDIX C:

- 1. SUMMARY OF HUMAN SUBJECTS RESEARCH PROTOCOL
- **2.** REQUEST FOR WAIVER OF INFORMED CONSENT/ AUTHORIZATON TO COLLECT PROTECTED HEALTH INFORMATION
- 3. Continuing or Final Review of Research Protocols Involving Human Subjects

Thomas Jefferson University—Division of Human Subjects Protection

SUMMARY OF HUMAN SUBJECTS RESEARCH PROTOCOL

Please address all applicable points to create a complete and succinct synopsis of the protocol. Use language, insofar as is possible, that can be understood by an external, non-scientist layperson, and provide meanings for all acronyms used. **Form must be typewritten.**

(Maintain subheadings in body of text.)

1. Introduction and rationale for study

The Department of Pathology at Thomas Jefferson University Hospital (TJUH) processes approximately 2000 diagnositic breast samples a year. These samples are examples of benign and malignant breast diseases obtained from patients that undergo surgical biopsies and resections at TJUH. These tissues are used for diagnostic purposes, but frequently there is additional tissue not used for diagnosis. In order to maximize the yield of information obtained from these tissues, we propose creating a tissue depository and a tissue banking information system for breast samples to be able to make them available for research studies.

- 2. Specific aim(s)
- a. Keep a depository of fresh forzen breast samples.
- b. Comprehensive database with Pathology and Clinical information for all samples available
- c. Analyze these tissues with current available technologies to better understand breast diseases.

3. Endpoint(s) to be measured

Availability of fresh, forzen tissue for current and future research, clinical studies and new technologies applied to the better understanding of breast diseases.

4. Number of subjects to be enrolled at TJU per year and in toto. These numbers should incorporate numbers screened and consented to reach enrollment.

We estimate that we should be able to store between 200 to 300 specimens a year.

5. Considerations of statistical power in relation to enrollment N/A

6. Explain procedures that will involve the subject

There won't be particular procedures that the patients will undergo in order to participate in this project, since the tissues obtained are collected after surgery and would otherwise, be discarded.

7. Identify the sources of research material obtained from individually identifiable living human subjects in the form of specimens, records, or data.

The samples will be obtained fresh from the Pathology Laboratory following their excision in the operating room. The pathologic data will be obtained from the pathology files and the clinical information will be provided by the patients themselves, who will be contacted by mail, with the referring physician's authorization and with IRB approved letter. They will be required to answer a simple questionnaire and return it to the Pathology Department.

8. Describe characteristics of the subject population, such as their anticipated number, age ranges, sex, ethnic background, and health status. The study should employ a study design with gender and race representation appropriate to the purpose of the research. Strong justification must be provided for exclusion of broad population groups. Identify the criteria for inclusion or exclusion. Explain the rationale for the use of vulnerable populations as research subjects (i.e., prisoners, pregnant women, fetuses, disabled persons, drug users, children).

All male and female patients that undergo breast biopsies and resections are eligible for the project. There are no prerequisites for the patient's samples to be stored once the appropriate diagnostic procedures have been carried out.

For all phase III clinical studies, women and members of minority groups and their subpopulations must be included, unless a clear and compelling rationale and justification is presented which shows that inclusion is inappropriate with respect to the health of the subjects or the purpose of the research. Cost is not an acceptable reason for exclusion except when the study would duplicate data from other sources. Describe your plan for enrolling these populations, and any outreach programs created for this purpose.

9. Describe plans for recruitment of subjects, including advertisement and posters and the consent procedures to be followed, including the circumstances under which consent will be sought and obtained, who will seek it, the nature of the information to be provided to prospective subjects and the methods of documenting consent.

N/A

10. Discuss whether risks to the subject are 'minimal' or 'greater than minimal.' List the major risks of subject participation. Describe any possible benefits of subject participation. Are the risks to subjects reasonable in relation to the anticipated benefits to subjects and in relation to the importance of the knowledge that may reasonably be expected to result?

There is no risk for participants, since this project only deals with breast tissues received in the Laboratory. Patients will be asked to provide clinical information by answering a short questionnaire, that will be sent to them by mail.

There will be no direct benefit to a specific patient. However, future studies using the available tissues in storage will help advance and learn new insights into breast diseases for example for prevention/treatment of cancers.

11. Describe the procedures for protecting against or minimizing any potential risks, including physical, psychological, legal and confidentiality risks, and assess their likely effectiveness. Where appropriate, discuss provisions for insuring necessary medical or

professional intervention in the event of adverse events to the subjects. **Discuss your data safety monitoring plan to insure the safety of subjects.** Also, where appropriate, describe alternative treatments and procedures that might be advantageous to the subjects.

All tissues will be asssigned a random number to provide confidentiality to the patients. The Kimmel Cancer Center Shared Computer Facility develops and maintains untegrated World Wide Web database applications for shared access to cancer research related information. Moltilevel security is provided by "username/password" entry at the Web browser level, and *NT* file system and *SQL* database table permissions. The transmission of confidential information, such as patient data, is protected with 128-bit encryption.

12. If this study is a database, chart, image or other data review, are all the data already in existence? If so, what is the original time frame of their collection (from when to when)? Also, will the data be collected anonymously (meaning that only aggregate data will be collected, and there will be no names or codes maintained to match the data with the original files)?

The project was iniciated in October 2000 and will continue indefinitelly. Tissue will be stored in the breast tissue bank facility in the Department of Pathology of TJUH. The purpose of storing the tissues is to make them available for future research. Random computer generated numbers will be assigned to each sample to protect patient's identities.

13. If this proposal is a Type I NIH application/proposal, you must include children, defined as individuals under the age of 21, as subjects unless there are scientific or ethical reasons for excluding them. See below for the permissible exclusionary circumstances listed in the NIH Policy. If no exclusion applies: 1) discuss your plan for the inclusion of children; 2) justify the age range of children to be enrolled; 3) indicate the expertise of the research team with regard to children; 4) describe the facilities for the children; 5) indicate the number of children to be enrolled to give sufficient power for meaningful analysis; 6) describe how the assent process for children 7 to 18 years of age will be carried out.

The research topic is irrelevant for children.

Justify your exclusion based on one of the exclusionary circumstances listed:

- The research topic is irrelevant for children
- Children are barred by law from participation because of the risk
- Study is redundant; knowledge is being obtained in another study or is already available
- Separate age-specific children study is preferable
- · Rarity of disorder makes inclusion of children extremely difficult
- The limited number of available children are already enrolled in a nationwide pediatric disease network
- Study design precludes direct applicability to children
- Insufficient adult data to judge potential risk for children
- Study design is a follow-up of an adult study
- 14. This study involves research to be performed at (check appropriate entry):

TJU only		
TJU and Methodist		
Methodist only		
<u> </u>		

__X_TJU and Other Institution(s) *(please specify)*_Multiple Institutions will share information and sample materials for different investigations.

REQUEST FOR WAIVER OF INFORMED CONSENT/ AUTHORIZATON TO COLLECT PROTECTED HEALTH INFORMATION*

IRB Control #019095 P.I. Name _Juan P. Palazzo, MD	
Study Title "Breast Cancer Tissue Procurement Program and Tissue Banking Information System"	_

The IRB may waive the requirement to obtain informed consent/authorization provided that the investigator justifies that specific criteria included in the Privacy Rule have been met. The IRB must agree with the investigator's justification and must document the findings. To obtain a waiver of consent/authorization, all of the following conditions must be met and justified. The IRB will make the final determination as to whether the conditions have been justified based on your answers to the following questions. Use additional space if necessary.

1. Explain why the use or disclosure of Protected Health Information (PHI) involves no more than a minimal risk to the privacy of individuals. Include a detailed list of the PHI to be collected and a list of the source(s) of the PHI. Use additional space if needed.

None of the researchers will have access to patient registration information, as all the cases banked are supposed to be provided with de-identified data. But in order to provide updated follow up, links to personal identifiers must be available to those members of the PI's team dedicated to data entry.

The information will be obtained from the patients, who will be asked to answer a simple questionnaire, mailed with their referring physician's authorization.

The PHI we intend to collect includes:

- -First and Last name
- -Social Security Number
- -Medical Record Number
- -Insurance Carrier
- -Insurance Number
- -Address (street, city, state and zip code)
- -Telephone Number
- 2. This research presents no more than minimal risk *to the subjects* because: Only de-identified information will be disclosed. No clinical information will be linked to personal data.
- 3. The waiver or alteration will not adversely affect the rights and welfare of the subjects because:
 - Only de-identified information will be provided to researchers. Results will not be referred back to patients or their physicians and will not be added to their clinical record.

- 4. Investigators are required to only obtain the minimum necessary PHI in order to achieve the goals of the research. Please justify why the data you wish to obtain is the minimum necessary to achieve the goals of the research. Along with banked samples we intend to be able to provide information on follow up and response to therapy. PHI are necessary in order to obtain long term follow up and outcome that can be correlated with investigation results.
- 5. The research could not be practicably carried out without the waiver or alteration because (please note inconvenience, time and resources are not acceptable criteria): Patient demographic information is not available to the pathology department.
- 6. The research could not practicably be conducted without access to and use of PHI because:
 - In order to understand pathogenesis, progression and outcomes of breast tumors, not only breast tissues but also clinical information is required.

*Protected Health Information: Individually identifiable health information transmitted or maintained in any form (electronic means, on paper, or through oral communication) that relates to the past or future physical or mental health or conditions of an individual.

- 7. Please describe the steps taken to assure privacy and confidentiality of subject data and to protect the identifiers/links to identifiers from improper use or disclosure. If links to identifiers are used, please describe the coding mechanism. Breast tissues to be banked are selected depending on the amount of tissue available. Specimen numbers are computer generated at the time of tissue banking and are used, from that moment on, to identify the samples and the clinical information. The database is firewall and password protected, so PHI is available only to the person dedicated to data entry in the PI's team. No researcher has access to patient's registration information and the clinical information can be linked only to the bank number. Access to the firewall protected database will be granted hierarchically by an IRB approved administrator and a password will be required, so they will be able to access clinical information but not to PHI.
- 8. Identifiers (or links) should be destroyed at the earliest possible time. Please describe your plans and specify when this will occur. However, if there is a justification for retaining the identifiers, please provide this information. (For protocols that may be subject to future continuing and secondary data analysis, provide a justification for not destroying identifiers indefinitely). As this is a longitudinal study, we need to keep links to identifiers, in order to update information, but these links will be restricted only to the person responsible

for data entry.

9.	If appropriate, how will subjects be provided with additional pertinent information after participation? If not appropriate, please specify why. Patients will be contacted by mail, after banking their tissues and with authorization from the referring physician, and will be asked to answer a simple and short questionnaire, in order to obtain clinical information. No investigation results will be referred back to the patients or their physicians and will not be placed in their medical records, as all the information provided to researchers will be de-identified.
	information listed in the waiver application is accurate and all study personnel will comply the HIPAA regulations and the waiver criteria. All study personnel have completed HIPAA ng.
Princ	cipal Investigator SignatureDate
For I	DHSP Use Only
۷	The IRB has determined that in accordance with the regulations of the HIPAA Privacy Rule 15 CFR Parts 160 and 164, criteria for waiver of authorization/and consent cannot be met and authorization/consent is required.

THOMAS JEFFERSON UNIVERSITY INSTITUTIONAL REVIEW BOARD Continuing or Final Review of Research Protocols Involving Human Subjects (Complete all items - Form must be typewritten)

TYPE OF REVIEW: [X] CONTINUING REVIEW/ANNU	JAL [] FINAL REVI	ΞW	
IRB CONTROL NO: 01.9095	DATE OF <u>FIRST</u> IRB APPI	ROVAL:	
2/00/01	DATE OF <u>LAST</u> ANNUAL	RB APPROV	AL:
2/12/03_ INITIAL REVIEW WAS <u>FULL</u> () or <u>EXPEDITED</u> (X) 6/08/00	DATE OF FIRST SUBJECT	T ENROLLME	ENT:
(Noted on approval letter)			
TITLE OF PROTOCOL: <u>"Breast Cancer Tissue Procureme System"</u>	nt Program and Tissue Bank	ng Informatio	<u>n</u>
PI AND CO-Is: PI: Juan P. Palazzo, MD CO-Is: Jack London, Ph.D. and Alejandra R	uiz Orrico, MD		
DEPARTMENT: Pathology, Anatomy and Cell Biology	FUNDING AGENCY: N/A_		
<u>Subject Summary:</u> Please provide the following subject			
 Projected enrollment at TJU approved by IRB: per year: (This form will consider "enrolled" to mean those subjects s 		Sinc	e Last
Total to randomized on a study.)	uoocoo.u.,, rotuou.	Approval	Date
2.Total number of subjects screened for enrollment at TJU (an applicable):	nd satellite sites, if	N/A	N/A
3. Total number of subjects enrolled (after screening):		156	561
4. Date when last on-site subject was enrolled: _12/29/03			
5. Number of serious adverse events occurring at TJU in the process consent form (please list adverse events):	past year currently noted in	N/A	N/A
6. Number of serious adverse events occurring at TJU in the print in consent form (please list adverse events):	past year <u>not</u> currently noted	N/A	N/A
Please attach adverse event summary included with applicable.	n your continuing review	reminder le	etter, if
_X_This report of continuing review <u>does not include</u> any increport. (Current subject risk profile remains unchanged.)	creased risks to subjects enro	olled since last	t
This report of continuing review <u>does include</u> increased r	isks to subjects currently enr	olled in the	
protocol. Consent form risk profile has been revised. Please explain	revisions below:		
Demographic Data: Provide the number of on-site subjects e	enrolled in the study to date.	accordina to	

(Total should be equal to #3 in Subject Summary).

classification. See Table.

	Native American	Asian	Black Non- Hispanic	Hispanic	White Non- Hispanic	Other/ Unknown	TOTAL TO DATE
Adult-							
Female							
Adult-Male							
Child-							
Female							
Child-Male							
TOTAL TO DATE							561

DIRECTIONS: For a study initially given a full review, submit 35 collated sets of the following items: OSA-9, updated OSA-2, adverse event summary (included with continuing review reminder letter), current stamped consent form, clean updated consent form. Also provide one complete copy of the current protocol. For a study initially given an expedited review, submit 4 collated sets of same materials. All final reviews should be submitted in 4 copies. If study was approved for collection of biological specimens, include copy of approval letter.

<u>Progress Report</u>: IRBs are federally mandated to review a progress report for all reports of continuing review. Please summarize the past year's on-site research and subject progress. *Include*: 1) subject response to treatment/procedures, 2) withdrawals from study, 3) data analysis, 4) presentations/publications of research, 5) subject grievances or complaints, and 6) summary of amendments submitted within the past year and changes in key personnel. (Use separate sheet for progress report, and for other questions as needed.)

<u>Audit/Site Visit:</u> Have you had an audit or site visit within the past year? Yes___ No X If yes, please attach report(s).

Multi-center Trials:

Have there been any relevant reports issued by the sponsor or cooperative group for this study? Yes____ No X If yes, please attach report(s).

Has a Data & Safety Monitoring Board (DSMB), Data Monitoring Committee (DMC) or sponsor reviewed study-wide adverse events and interim findings? Yes____ No_X If yes, please attach report(s).

<u>Literature Review</u>: As Principal Investigator of this study, I certify that I have conducted a review of the relevant literature published in the past year, and I have found that the literature indicates:

[X] No change in the risk/benefit ratio for subjects on this study, and no cause for subjects to reconsider their participation in the

study.

[] <u>Change</u> in the risk/benefit ratio for subjects on this study and/or <u>cause</u> for subjects to reconsider their participation in the

study. Please explain and cite relevant articles.

Enrollment: Has the enrollment for the past year been greater or less than projected? Explain. If the enrollment has been less than projected, has this impacted on the statistical validity of the study?

<u>Recruitment/Payment:</u> Have there been any modifications to recruitment procedures and/or subject payment? If yes, was an RO-12 submitted?

Current Study Status:

X	Study is active and subject recruitment is ongoing.
	Enrollment is closed. However, subjects are currently receiving study treatment. (A new stamped consent form will not be issued.)
	Enrollment is closed. Subjects are not receiving study treatment. Follow-up involves following for survivorship and/or treatment or testing that would not be done off-protocol. (A new stamped consent form will not be issued.)
	Study is closed. This represents the final report.

<u>Certification:</u> We certify that the information contained above is correct, that the consent form currently reflects any and all modifications since the last approval by the Institutional Review Board, and that: [check where relevant]

[X] Under federal mandate, there is a signed consent form on file with the principal investigator for every subject studied at TJU, and each subject at TJU has received a signed copy of the consent form. (If this is not true, please provide a brief explanation. Do not check if no subjects enrolled)

OR

[]		The Institutional Review Board approved the study without a need to ob	tain written o	consent
fron	n suk	ubjects.		

			215-503-
5050		Date	Telephone and/or Pager
		_	215-955-4403
Principal Investigator	Date		Telephone and/or Pager Number
**If you have not updated your consent form (OSA current IRB consent form template, available from form for grammatical correctness, spelling & legibil	the IRB offi	ce or II	
Prog	ress Repor	<u>t</u>	
The recruitment of surgical specimens contin	ue to grow.	The	tumor bank has 561 breast cancer
samples that are being utilized by Jefferson and non J	efferson res	earche	ers. The corresponding IRB
documents from these collaborators have been filed with the Jeffers slower pace but also in compliance with the a			
			·
5050			_ 215-503-
Signature of Individual Completing This Report Number		Date	Telephone and/or Pager
		<u>-</u>	215-955-4403
Principal Investigator	Date		Telephone and/or Pager Number

APPENDIX D: Materials Transfer Agreement

NOT APPLICABLE

APPENDIX E: SAMPLE REPORT

SurgPathNum S00-19215	StudyNumber 1	AccDate 10/3/2000	TumorBank no	SpecType Modified radical mastectomy	SiteLesion Left - Upper Inner Quadrant	LNexcision yes	TypeLNexcision Axillary lymph node dissection w/o designated leve
S00-19178 S00-19248	100 101	10/2/2000 10/3/2000	yes yes	Lumpectomy w/o margins Modified radical mastectomy		no yes	Axillary lymph node dissection w/o designated leve
S00-11077	102	6/8/2000	yes	Modified radical mastectomy		yes	Axillary lymph node dissection w/ designated level
S00-13667	103	7/17/2000	yes	Lumpectomy w/o margins		no	-
S00-18854	104	9/27/2000	yes	Lumpectomy w/o margins	Left - Upper Outer Quadrant	yes	Axillary lymph node dissection w/o designated leve
S00-12652	105	6/30/2000	yes	Lumpectomy w/ separate margins		no	
S00-12591	106	6/29/2000	yes	Lumpectomy w/o margins		no	
S00-23765	107	12/5/2000	yes	Modified radical mastectomy	Left - Upper Outer Quadrant	yes	Axillary lymph node dissection w/o designated leve
S00-24190	108	12/11/2000	yes	Lumpectomy w/ separate margins	Right - Quadrant NOT SPECIFIED	no	
S00-24388	109	12/13/2000	yes	Modified radical mastectomy	Left - Lower Inner Quadrant	yes	Axillary lymph node dissection w/ designated level
S00-24315	113	12/12/2000	yes	Modified radical mastectomy	Right - Upper Inner Quadrant	yes	Axillary lymph node dissection w/ designated level
S00-24269	114	12/11/2000	yes	Lumpectomy w/o margins		no	
S00-24611	115	12/15/2000	yes	Lumpectomy w/ margins		no	
S00-25436	115	12/29/2001		Modified radical mastectomy		yes	Axillary lymph node dissection w/o designated leve
	115						
S00-25113	116	12/22/2000	yes	Lumpectomy w/ separate margins		no	
S00-25121	117	12/22/2000	yes	Lumpectomy w/ separate margins	Right - Upper Outer Quadrant	no	
S00-25167	118	12/26/2000	yes	Modified radical mastectomy	Right - Upper Outer Quadrant	yes	Axillary lymph node dissection w/o designated leve
S00-24221	119	12/11/2000	yes	Lumpectomy w/ margins	Left - Upper Outer Quadrant	no	
S00-23483	120	11/30/2000	yes	Radical mastectomy	Zon Oppor Galor Quadrant	yes	Axillary lymph node dissection w/o designated leve
S00-23723	121	12/4/2000	yes	Lumpectomy w/o margins		no	

S00-23587	122	12/1/2000	yes	Lumpectomy w/ separate		no	
300-23307	122	12/1/2000	yes	margins		no	
S00-23184	123	11/28/2000	yes	Modified radical mastectomy	Right - Lower Outer Quadrant	yes	Axillary lymph node dissection w/ designated level
S00-24970	124	12/20/2000	yes	Lumpectomy w/o margins		no	
S01-00344	125	1/5/2001	yes	Modified radical mastectomy	Right - Lower Outer Quadrant	yes	Axillary lymph node dissection w/ designated level
S00-24736	125	12/18/2000	yes	Other		no	
S00-25218	126	12/27/2000	yes	Modified radical mastectomy		yes	Axillary lymph node dissection w/o designated leve
S00-25254	127	12/27/2000	yes	Reduction mammoplasty		no	
S00-22150	128	11/10/2000		Lumpectomy w/ margins		no	
S00-22086	129	11/10/2000	yes	Lumpectomy w/o margins		no	
S00-24319	130	12/12/2000	yes	Lumpectomy w/o margins		no	
S00-25038	131	12/21/2000	yes	Other		no	
S00-24608	132	12/15/2000	yes	Lumpectomy w/ separate margins		no	
S00-25004	133	12/21/2000		Modified radical mastectomy		yes	Axillary lymph node dissection w/ designated level
S00-23319	134	11/29/2000	yes	Lumpectomy w/o margins		no	
S00-23561	135	12/1/2000		Reduction mammoplasty		no	
S00-23444	136	11/30/2000	yes	Reduction mammoplasty		no	
S00-24091	137	12/8/2000	yes	Lumpectomy w/ separate margins		no	
S01-00374	138	1/5/2001	yes	Lumpectomy w/ separate margins	Left - Upper Inner Quadrant	no	
S01-00204	140	1/4/2001		Lumpectomy w/o margins		no	
S01-00141	141	1/3/2001		Reduction mammoplasty		no	
S01-00045	142	1/2/2001	yes	Reduction mammoplasty		no	
S01-00044	143	1/2/2001		Modified radical mastectomy	Left - Lower Outer Quadrant	yes	Axillary lymph node dissection w/ designated level
S01-00003	144	1/2/2001	yes	Lumpectomy w/ separate margins		no	
S01-8131	145 145	4/23/2001	yes	Modified radical mastectomy		yes	
S01-1488	148	1/19/2001	yes	Lumpectomy w/o margins			
S01-1505	149	1/19/2001	yes	Lumpectomy w/ separate margins	Left - Upper Outer Quadrant	no	
S01-1684	150	1/22/2001	yes	Lumpectomy w/o margins		no	
S01-2717	151	2/5/2001	yes	Lumpectomy w/o margins		no	
S01-2263	152	1/30/2001	yes	Radical mastectomy	Left - Upper Outer Quadrant	yes	Axillary lymph node dissection w/o designated leve
S01-2861	153	2/6/2001	yes	Reduction mammoplasty		no	
S01-3274	154	2/12/2001	yes	Lumpectomy w/o margins		no	
001-0214	107	21 1212001	yes	Lampestoniy w/o margins		110	

S01-2729	155	2/5/2001	yes	Lumpectomy w/ separate margins		no	
S01-3354	155	2/13/2001	yes	Other		yes	Sentinel node biopsy
S01-2762	156	2/5/2001	•	Lumpectomy w/ separate		no	centine node biopsy
			yes	margins		IIO	
S01-2764	157	2/5/2001	yes	Lumpectomy w/ separate margins		no	
S01-3442	158	2/13/2001	yes	Simple mastectomy	Left - Upper Inner Quadrant	no	
S01-3327	159	2/12/2001	yes	Lumpectomy w/ separate		no	
			•	margins			
S01-3114	160	2/9/2001	yes	Lumpectomy w/ separate margins		no	
S01-3137	161	2/9/2001	yes	Modified radical mastectomy	Left - Upper Inner Quadrant	yes	Axillary lymph node dissection w/ designated level
S01-3115	162	2/9/2001	yes	Lumpectomy w/ separate margins		no	accignated level
S01-3013	163	2/8/2001	yes	Lumpectomy w/o margins			
S01-9326	164	5/1/2001	yes	Modified radical mastectomy		yes	Axillary lymph node dissection
001-0020	104	3/ 1/200 T	ycs	Wodined radical mastectomy		yes	w/o designated leve
S02-4320	164	2/26/2002	yes	Modified radical mastectomy	Right - Lower Outer Quadrant	yes	Axillary lymph node dissection w/ designated level
S01-3446	165	2/14/2001	yes	Lumpectomy w/o margins		yes	Axillary lymph node dissection w/o designated leve
S01-3592	166	2/15/2001	yes	Modified radical mastectomy		yes	Axillary lymph node dissection w/o designated leve
S01-3571	167	2/15/2001	yes	Simple mastectomy	Left - Lower Inner Quadrant	yes	Axillary lymph node dissection w/o designated leve
S01-3702	168	2/16/2001	V00	Lumpectomy w/o margins		no	
S01-3702 S01-3826	169		yes			110	
		2/19/2001	yes	Reduction mammoplasty			
S01-3831	170	2/19/2001	yes	Lumpectomy w/ separate margins		no	
S01-4376	170	2/27/2001	yes	Lumpectomy w/ separate margins		yes	Axillary lymph node dissection w/ designated level
S01-4369	171	2/26/2001	yes	Lumpectomy w/ separate		no	W doolghated level
301-4309	17.1	2/20/2001	yes	margins		HO	
S01-4204	172	2/23/2001	yes	Reduction mammoplasty		no	
S01-4197	173	2/23/2001	yes	Lumpectomy w/ separate		no	
			*	margins			
S01-4565	174	2/28/2001	yes	Lumpectomy w/o margins		no	
S01-4564	175	2/28/2001	yes	Lumpectomy w/o margins		no	
S01-4530	176	2/28/2001	yes	Reduction mammoplasty		no	
			•			110	
S01-4655	177	3/1/2001	yes	Reduction mammoplasty			
S01-4602	178	3/1/2001	yes	Lumpectomy w/o margins		no	

S01-4632	179	3/1/2001	yes	Lumpectomy w/ separate margins		yes
S01-5203	180	3/9/2001	yes	Modified radical mastectomy		yes
S01-4702	181	3/2/2001	yes	Lumpectomy w/ separate margins		no
S01-4654	182	3/1/2001	yes	Lumpectomy w/o margins		no
S01-4581	183	2/28/2001	yes	Lumpectomy w/ margins		no
S01-5640	184	3/15/2001	yes	Lumpectomy w/ separate margins	Left - Quadrant NOT SPECIFIED	no
S01-5773	185	3/16/2001	yes	Lumpectomy w/ margins	Left - Quadrant NOT SPECIFIED	no
S01-5640	186	3/15/2001	yes	Lumpectomy w/ separate margins	Left - Quadrant NOT SPECIFIED	no

Axillary lymph node dissection w/o designated leve

Axillary lymph node dissection w/ designated level